

## ABSTRACT

A thin automobile lamp assembly is manufactured by first fixing an elongated printed circuit board (PCB) having a plurality of LEDs to an elongated inner lens before the inner lens and PCB are joined to any other parts. The inner lens is fixed to the PCB by contacting the inner lens and the PCB such that a plurality of stakes on the inner lens extend through a plurality of associated holes on the PCB. The stakes extending through the holes are then melted by a process such as heat staking to fix the PCB to the inner lens. The fixed relationship between the inner lens and the PCB board secures a proper alignment between the lens and the plurality of LEDs on the PCB. Next, the PCB and lens subassembly is joined to a lamp housing, and the entire assembly is secured to an automobile.

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